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No. 3] NEW DELHI, SATURDAY, MAY 29, 1971 (JYAISTHA 8, 1893)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

## भाग I—खण्ड 3 (PART I—SECTION 3)

रक्षा मंत्रालय द्वारा जारी किये गये अधिनियमों, विनियमों, आदेशों और संकल्पों से सम्बन्धित अधिसूचनाएं  
(Notifications relating to Non-Statutory Rules, Regulations, Orders and Resolutions issued by the Ministry of Defence)

### MINISTRY OF DEFENCE

New Delhi, the 29th May 1971

#### NOTIFICATION

No. 1251—An examination for entry to the Indian Navy as Special Entry Cadets to undergo training at (i) National Defence Academy, Kharakvasala, and (ii) Naval Academy, Cochin, shall be held by the Union Public Service Commission at such places and on such dates as may be specified in the Notice issued by the Commission in this behalf. The approximate number of vacancies to be offered for entry as cadets to undergo training at the National Defence Academy and the Naval Academy, Cochin respectively, will be specified in the Notice issued by the Commission.

2. Admission to the Indian Navy will be made on the results of a written examination to be conducted by the Union Public Service Commission and an interview by a Services Selection Board.

A candidate may apply for admission to the examination in respect of vacancies to be offered at the National Defence Academy, and/or at the Naval Academy, Cochin. A candidate wishing to be considered for both the courses, should specify his order of preference in the relevant column of the application form so that having regard to his rank in the order of merit list, due consideration can be given to his preferences, when making selections for the respective courses.

Candidates finally selected for training at the National Defence Academy will be appointed as Cadets; and on satisfactory completion of one year's training they will be selected for the Executive Engineering, Electrical, and Supply & Secretariat Branches of the Navy. Candidates finally selected for training at the Naval Academy, Cochin will be appointed as Cadets in the Executive Branch of the Navy.

3. Candidates who have applied for a commission in any branch in the Army or for Direct entry Commission in the Air Force must exercise their final option before admission

to the Indian Navy Course. After admission they will not be considered for any other Commission. They will also not be permitted to appear for any interview or examination after they have been finally selected for training.

4. A candidate must be an unmarried male and must be either

- (a) a citizen of India, or
- (b) a subject of Sikkim, or
- (c) a subject of Bhutan, or
- (d) a subject of Nepal, or
- (e) a person of Indian origin who has migrated from Pakistan, Burma, Ceylon and the East African Countries of Kenya, Uganda and the United Republic of Tanzania (formerly Tanganyika and Zanzibar), with the intention of permanently settling in India.

Provided that a candidate belonging to categories (d) and (e) above shall be a person in whose favour a certificate of eligibility has been issued by the Government of India.

Certificate of eligibility will not, however, be necessary in the case of candidates belonging to any one of the following categories—

- (i) persons who migrated to India from Pakistan on or after the nineteenth day of July, 1948, and have got themselves registered as citizens of India under Article 6 of the Constitution.
- (ii) Gorkha subjects of Nepal.

A candidate in whose case a certificate of eligibility is necessary may be admitted to the examination and he may also provisionally be admitted to the National Defence Academy or Naval Academy as the case may be, subject to the necessary certificate being given to him by the Government.

NOTE.—A widower or a person who has divorced his wife cannot be treated as an unmarried male for the purpose of the above Rule.

5. CANDIDATES SHOULD BE MEDICALLY FIT IN ALL RESPECTS FOR SERVICE IN ANY PART OF THE WORLD. THE STANDARDS OF MEDICAL FITNESS ARE SHOWN IN APPENDIX II TO THE NOTIFICATION.

A NUMBER OF QUALIFIED CANDIDATES ARE REJECTED SUBSEQUENTLY ON MEDICAL GROUNDS. CANDIDATES ARE THEREFORE ADVISED IN THEIR OWN INTEREST TO GET THEMSELVES MEDICALLY EXAMINED BEFORE SUBMITTING THEIR APPLICATIONS TO AVOID DISAPPOINTMENT AT THE FINAL STAGE.

A sufficient number of suitable candidates recommended by the Services Selection Board will be medically examined by a Board of Service Doctors. A candidate who is not declared fit by the Medical Board will not be admitted to the Indian Navy. The very fact that the medical examination has been carried out by a Board of Service Doctors will not mean or imply that the candidate has been finally selected. The proceedings of the Medical Board are confidential and cannot be divulged to anyone. The results of candidates declared unfit/temporarily unfit are intimated to them along with the procedure for submission of fitness certificate and appeal. No requests for the results of Medical Board will be entertained by the President of the Medical Board.

6. Candidates must undertake not to marry until they complete their full training. A candidate who marries subsequent to the date of his application though successful at this or any subsequent examination, will not be selected for training. A candidate who marries during training shall be discharged and will be liable to refund all expenditure incurred on him by the Government.

7. A candidate for admission to the examination must have attained the age of 17 years and must not have attained the age of 20 years on the first day of the month in which the Course for the Indian Navy is due to commence.

THE PRESCRIBED AGE LIMITS CAN IN NO CASE BE RELAXED.

8. A candidate must have passed or the following examinations or must possess one of the following certificates :—

- (a) the Intermediate or an equivalent Examination of a University or Board approved by the Government of India; or
- (b) the first year Examination under the three-year Degree course of a University approved by the Government of India; or
- (c) the pre-engineering Examination of the Delhi Polytechnic Delhi or of a University approved by the Government of India; or
- (d) the pre-professional/pre-technological Examination of an Indian University or a recognised Board conducted one year after the Higher Secondary or the pre-University stage; or
- (e) the first year Examination under the five-year Engineering Degree Course of a University; or
- (f) the Cambridge Higher School Certificate examination; or
- (g) a diploma examination in engineering provided that the examination is taken after a course lasting not less than 2 years subsequent to Matriculation and provided also that the examination is recognised by a State Government for employment under it; or
- (h) General Certificate of Education Examination of London University at 'Advanced' level provided it is passed in at least three subjects; or
- (i) General Certificate of Education Examination of the Associated Examination Boards, London, at 'Advanced' level provided it is passed in at least three subjects; or
- (j) General Certificate of Education Examination of Ceylon at 'Advanced' level; or
- (k) the first year examination of the three year diploma course in Rural Services of the National Council for Rural Higher Education.
- (l) Uttar Madhyama (with English) or Old Khair Madhyama (full four years' course) or Sampurna Madhyama Examination and special examination in additional subjects in each case with English as one of the subjects of Varanaseya Sanskrit Vishwa Vidyalaya, Varanasi.

NOTE 1—In exceptional cases, the Union Public Service Commission may treat a candidate who has not any of the qualifications prescribed in this rule, as educationally qualified provided that he possesses qualifications, the standard of which in the opinion of the Commission justifies his admission to the examination.

NOTE 2—A candidate who has appeared at an examination the passing of which would render him eligible to appear at this examination but has not been informed of the result may apply for admission to the examination. A candidate who intends to appear at such a qualifying examination may also apply. Such candidates will be admitted to this examination, if otherwise, eligible, but the admission would be deemed to be provisional and subject to cancellation if they do not produce proof of having passed the examination as soon as possible, and in any case not later than a date which may be fixed by the Union Public Service Commission in this regard.

9. Candidates who were admitted to an earlier course for training as Naval Cadets or for training at the National Defence Academy, Indian Military Academy or Air Force Flying College but were removed therefrom on disciplinary grounds will not be eligible for admission to the Indian Navy.

Candidates who were previously withdrawn on medical grounds from any of these institutions, or who left the institution voluntarily are, however, eligible for admission to the Indian Navy.

Candidates who were previously selected as Special Entry Naval Cadets but were withdrawn from the National Defence Academy or from Naval Training Establishments for lack of officer-like-qualities will not also be eligible for admission to the Indian Navy.

Candidates who were withdrawn from other institutions for lack of officer-like qualities will, however, be eligible for admission to the Indian Navy.

10. The decision of the Commission as to the eligibility or otherwise of a candidate shall be final.

11. A candidate who is or has been declared by the Commission guilty of impersonation or of submitting fabricated documents or documents which have been tampered with or of making statements which are incorrect or false or of suppressing material information or otherwise resorting to any other irregular or improper means for obtaining admission to the examination or of using or attempting to use unfair means in the examination hall or of misbehaviour in the examination hall, may in addition to rendering himself liable to criminal prosecution, be debarred either permanently or for a specified period :—

- (a) by the Commission from admission to any examination or appearance at any interview held by the Commission for selection of candidates; and
- (b) by the Central Government from employment under them.

12. No candidate shall be admitted to the examination unless he holds a certificate of admission from the Commission.

13. Any attempt on the part of a candidate to obtain support for his candidature by any means may disqualify him for admission.

14. The examination will be conducted by the Commission in the manner prescribed in Appendix I to the Notification.

15. Candidates must pay the fee prescribed in Annexure I to the Commission's Notice.

16. The Union Public Service Commission shall prepare a list of candidates who obtain the minimum qualifying marks in the written examination as fixed by the Commission in their discretion. Such candidates shall be interviewed by a Services Selection Board. The maximum marks obtainable at Services Selection Board interview will be 900.

To be acceptable candidates should secure the minimum qualifying marks separately in (i) written examination and (ii) Services Selection Board Test as fixed by the Commission in their discretion. Subject to this condition, they will then be placed in the order of merit on the basis of the total marks secured in the written examination and the interview. The final selection for admission to the Indian Navy will be made in order of merit subject to medical fitness and suitability in all other respects and number of vacancies available.

Candidates will appear before the Services Selection Board and undergo the test there at their own risk and will not be entitled to claim any compensation or other relief from Government in respect of any injury which they may sustain in the course of or as a result of any of the tests given to them at the Services Selection Board, whether due to the negligence of any person or otherwise. Candidates will be required to sign a certificate to this effect on the form appended to the application. In the case of candidates who are minors the required certificate must be signed by their parents or guardians in the form prescribed.

Candidates, when called for interview by a Services Selection Board or for subsequent training will be eligible for travelling allowance in accordance with the rules then in force. Candidates who have previously been before a Services Selection Board for the same type of Commission are not entitled to travelling allowance on subsequent occasions.

Success at the examination confers no right of admission to the Indian Navy.

A candidate must satisfy the appointing authority that he is suitable in all respects for admission to the Indian Navy.

17. The form and manner of communication of the result of the examination to individual candidates shall be decided by the Commission in their discretion, and the Commission will not enter into correspondence with them regarding the result.

18. The following provisions are applicable to candidates who join the Indian Navy as Special Entry Cadets and undergo training at the National Defence Academy, Kharakvasla—

(i) Candidates finally selected for training at the Academy will be required to deposit the following amount with the Commandant, National Defence Academy, on arrival there.

(a) Candidates not applying for Government financial aid :-	Rs.
(i) Pocket allowance for five months @ Rs. 45.00 per month	225.00
(ii) For items of clothing and equipment	500.00
<b>TOTAL</b>	<b>725.00</b>

(b) candidates applying for Government financial aid :-

(i) Pocket allowance for two months @ Rs. 45.00 per month	90.00
(ii) For items of clothing and equipment	125.00
<b>TOTAL</b>	<b>215.00</b>

(ii) Selected candidates will be appointed as Cadets and will undergo one year's training at the N.D.A. On completion of this training they will be selected for the Executive, Engineering, Electrical and Supply & Secretariat Branches of the Navy. They will be required to undergo further afloat training as cadets for 6 months on successful completion of which they will be promoted as Midshipmen. Thereafter they will be required to undergo separate training for their respective branches. The duration of such training is 2 to 4½ years depending upon the branch of the Service to which they are allocated.

(iii) While at the National Defence Academy, Cadets will be subjected to the discipline of the Academy. During training in Ships and Establishments of the Indian Navy they will be subjected to the Indian Navy Act, 1957. During all stages of initial training, Cadets etc., will be liable to be withdrawn from training and discharged if their progress is found to be unsatisfactory or they are otherwise considered unsuitable.

(iv) While at the Academy, the cost of Cadets' training including books, uniform, accommodation, boarding and medical treatment will be borne by the Government but the Cadets will be expected to meet their pocket expenses. The pocket expenses of Cadets are likely to be Rs. 45 per month. Where Cadet's parents or guardians are unable to meet wholly or partly even this expenditure financial assistance up to Rs. 45 p.m. may be granted by the Government provided that no Cadet whose parent or guardian has an income of Rs. 350.00 or above per month would be eligible for the grant of financial assistance.

A candidate desiring financial assistance should immediately after being finally selected for training at the Academy submit an application through the District Magistrate of his district who will, with his recommendations, forward the application to the Director of Military Training, Army Headquarters, New Delhi.

(v) The following scholarships are tenable at the National Defence Academy :—

(1) **PARSHURAM BHAI PATWARDHAN SCHOLARSHIP**—This scholarship is awarded to cadets from MAHARASHTRA and KARNATAK. The value of one scholarship is up to a maximum of Rs. 500.00 per annum for the duration of a cadet's stay at the National Defence Academy, subject to the cadet making satisfactory progress. The scholarship will also be available at the Naval training establishments where a cadet may be sent for further training after he has completed his training at the National Defence Academy. The cadets who are granted this scholarship will not be entitled to any other financial assistance from the Government.

(2) **MAHARAJA JAGADIPENDRA NARAYAN SCHOLARSHIP**—This scholarship of the value of Rs. 360.00 per annum is awarded to a needy cadet, who fails to secure any financial assistance from the Government and is paid on completion of a term at the National Defence Academy. The scholarship is sanctioned by the Government on a means-*cum*-merit basis.

(3) **COLONEL KENDAL FRANK'S MEMORIAL SCHOLARSHIP**—This scholarship is of the value of Rs. 360.00 per annum and is awarded to a MARATHI Cadet who should be the son of an ex-serviceman. The scholarship is in addition to any financial assistance from the Government.

(4) **KUER SINGH MEMORIAL SCHOLARSHIP**—Two scholarships are awarded to two cadets who obtain the highest position amongst candidates from BIHAR. The value of each Scholarship is Rs. 37.00 per mensem (tenable for a maximum period of 4 years during the training at the National Defence Academy, Kharakvasla, and thereafter at the Naval Training Establishments where the cadets may be sent for training on completion of their training at the National Defence Academy. The scholarship will, however, be continued subject to making good progress at the above institution.

(5) **ASSAM GOVERNMENT SCHOLARSHIPS**—Four scholarships will be awarded annually to the cadets from ASSAM. The value of each scholarship is Rs. 30.00 per mensem and is tenable for the duration of a cadet's stay at the National Defence Academy. The first two scholarships will be awarded to the two best cadets from ASSAM without any reference to the income of their parents. The other two scholarships will be awarded to any other two cadets from ASSAM whose parents' income is less than Rs. 300.00 per mensem. The cadets who are granted this scholarship will not be entitled to any other financial assistance from the Government.

(6) **UTTAR PRADESH GOVERNMENT SCHOLARSHIP**—This scholarship of the value of Rs. 30.00 per month and an outfit stipend of Rs. 400.00 is awarded to a cadet who belongs to UTTAR PRADESH on merit-*cum*-means basis and is tenable for a period of three years subject to satisfactory performance by the cadet at the National Defence Academy. The cadet who is granted this Scholarship is not entitled to any other financial assistance from Government.

(7) **KERALA GOVERNMENT SCHOLARSHIP**—One scholarship of the annual value of Rs. 300.00 is awarded for each course at the National Defence Academy during the entire period of training by the KERALA State Government to the student who secures admission to the Academy after passing out from the Ravithiya Indian Military College, Dehra Dun, and who has been domiciled in the State of KERALA. This scholarship is awarded to the cadet who is not eligible for Government of India assistance and whose parent or guardian has a monthly income below Rs. 500.00 per mensem.

(vi) Subsequent training in ships and establishments of the Indian Navy is also at the expense of the Government. During the first six months of their training after leaving the National Defence Academy, financial concession similar to those admissible at the Academy *vide* paragraph 18(iv) will be extended to them. After six months of training in ships and establishments of the Indian Navy when Cadets are promoted to the rank of Midshipman they begin to receive pay and parents are not expected to pay for any of their expenses.

(vii) No cadet will normally be permitted to resign while under training. A cadet who is not considered suitable to complete the full course at the Indian Naval Ships and Establishments may, with the approval of the Government, be withdrawn from training and discharged. A service cadet under these circumstances may be reverted to his original appointment. A cadet thus discharged or reverted will not be eligible for re-admission to a subsequent course. Cases of cadets who are allowed to resign on compassionate grounds, may, however, be considered on merits.

19. The following provisions are applicable to candidates who join the Indian Navy as Special Entry Cadets and undergo training at the Naval Academy, Cochin.

(i) Selected candidates will be appointed as cadets and undergo training in Naval Ships and Establishment as under :—

- (a) Cadets Training including afloat training for 6 months . . . . . 1½ Years
- (b) Midshipmen afloat Training . . . . . 1 Year
- (c) Acting Sub-Lieutenants Technical Courses . . . 1 Year
- (d) Sub Lieutenants—

A minimum period of 3 months sea service to obtain a watch-keeping Certificate.

(ii) The cost of training including accommodation and allied services, books, uniform, messing and medical treatment of the cadets will be borne by the Government. Parents or guardians of cadets will however, be required to meet their pocket and other private expenses while they are cadets. When a cadet's parent or guardian has an income less than Rs. 350 per mensem and is unable to meet wholly or partly the pocket expenses of the cadet, financial assistance up to the Rs. 40 per mensem may be granted by the government. A candidate desirous of securing financial assistance may immediately after his selection, submit an application through the District Magistrate of his District, who will with his recommendations forward the application to the Director of Personnel Services, Naval Headquarters New Delhi.

Provided that in a case where two or more sons or wards of a parent or guardian are simultaneously undergoing training at Naval ships-establishments, financial assistance as aforesaid may be granted to all of them for the period they simultaneously undergo training, if the income of the parent or guardian does not exceed Rs. 400 p.m.

(iii) In addition to the uniform provided free by the Government, cadets should be in possession of some other items of clothing. In order to ensure correct pattern and uniformity, these items will be made at Naval Academy and cost will be met by the parents or guardians of the cadets. Cadets applying for financial assistance may be issued with some of these items of clothing free or on loan. They may only be required to purchase certain items.

(iv) During the period of training, Service Cadets may receive pay and allowances of the substantive rank held by them as a sailor or as a boy or as an apprentice at the time of selection as cadets. They will also be entitled to receive increments of pay, if any, admissible in that rank. If the pay and allowances of their substantive rank be less than the financial assistance admissible to direct cadets, and provided they are eligible for such assistance, they will also receive the difference between the two amounts.

(v) No cadet will normally be permitted to resign while under training. A cadet who is not considered suitable to complete the full course at the Indian Naval Ships and Establishments may, with the approval of the Government, be withdrawn from training and discharged. A service cadet under these circumstances may be reverted to his original appointment. A cadet thus discharged or reverted will not be eligible for re-admission to a subsequent course. Cases of cadets who are allowed to resign on compassionate grounds, may, however, be considered on merits.

20. Before a candidate is selected as a cadet in the Indian Navy, his parent or guardian will be required to sign—

- (a) A certificate to the effect that he fully understands that he or his son or ward shall not be entitled to claim any compensation or other relief from the Government in respect of any injury which his son or ward may sustain in the course of or as a result of the training or where bodily infirmity or death results in the course of or as a result of a surgical operation performed upon or anaesthesia administered to him for the treatment of any injury received as aforesaid or otherwise.
- (b) A bond to the effect that if for any reasons considered within the control of the candidate, he wishes to withdraw from training, or fails to accept a commission, if offered, he will be liable to refund the whole or such portion of the cost of tuition, food, clothing and pay and allowances received, as may be decided upon by Government.

Deputy Secretary

## APPENDIX I

The subjects of the written examination, the time allowed and the maximum marks allotted to each paper will be as follows :—

Subject	Time allowed	Maximum Marks
1. English	2½ hours	250
2. General Knowledge		
Paper I	2½ hours	200
Paper II	2½ hours	200
3. Mathematics		
Paper I	2 hours	125
Paper II	2 hours	125

2. CANDIDATES ARE EXPECTED TO BE FAMILIAR WITH THE METRIC SYSTEM OF WEIGHTS AND MEASURES. IN THE QUESTION PAPER, WHEREVER NECESSARY, QUESTIONS INVOLVING THE USE OF METRIC SYSTEM OF WEIGHTS AND MEASURES MAY BE SET.

3. All question papers must be answered in English unless otherwise expressly stated in the question paper.

4. Candidates must write the papers in their own hand. In no circumstances will they be allowed the help of a scribe to write the answers for them.

5. The Commission have discretion to fix qualifying marks in any or all the subjects at the examination.

6. Marks will not be allotted for mere superficial knowledge.

7. Deductions up to 5 per cent of the maximum marks for written subjects will be made for illegible handwriting.

## SCHEDULE

### Standard and Syllabus of the Examination

(1) **ENGLISH**—The questions will be designed to test the candidate's understanding and command of the language. Amongst other tests a passage will be set for the precis.

(2) **GENERAL KNOWLEDGE**—There will be two papers :

Paper I—dealing mainly with Current Affairs and History.

Paper II—dealing with Science and Geography.

The following syllabus is designed to indicate the scope of each subject included in these papers. The topics mentioned are not to be regarded as exhaustive and questions on topics of similar nature not mentioned in the syllabus may also be asked. Candidate's answers are expected to show their intelligent understanding of the questions and not detailed knowledge of any text book.

## PAPER I

**Current Affairs**—Knowledge of important events that have happened in India during the past two years. India's system of Government. Important measures of legislation, whether undertaken by the Parliament or State Legislatures. Broad questions on India's policy relating to foreign affairs. Questions set will test the factual knowledge of candidates.

World events of international importance. Important personalities, both Indian and foreign. Sports and other cultural activities of outstanding importance.

**Indian History**—Broad outline knowledge of Indian History. Knowledge of India's ancient culture and civilization as disclosed by monuments, ancient buildings and masterpieces of literature. Growth of self-Government. Main stages in the national movement leading to Independence.

**World History**—Elementary knowledge of major events in world history. Reforms or national movements such as represented by the French Revolution, the Industrial Revolution in the U.K., the American War of Independence, the foundation of U.S.S.R., World Wars I and II, modern freedom movements in Asia.

## PAPER II

## Science

**Physics**—Physical properties and states of matter and simple measurements of mass, weight, density and specific gravity. Motion of object. Velocity, acceleration, force, gravity. Effects of heat, measurements of temperature, transference of heat, change of state.

Rectilinear propagation of light, phenomenon of reflection and refraction.

Natural and artificial magnets—Properties of a magnet

Electricity, static and current, conductors, and non-conductors, heating, lightning, and magnetic effects of currents.

**Chemistry**—Physical and chemical changes; elements, mixtures and compounds; chemical properties of air; chemical composition of water; preparation and properties of Oxygen, Hydrogen and Nitrogen. Acids, Bases and Salts; Carbon, Coal, Carbon-dioxide.

**General**—Elementary knowledge of the human body and its important organs. Names and uses of the common animals, trees, plants, flowers, birds and minerals.

Common epidemics, their causes, means of prevention and cure.

Eminent Scientists, and their achievements.

**Geography**—The shape and movements of the Earth. Time, Night and Day and the Seasons. Climate and Weather—the main climatic and vegetation regions. The Earth's crust erosion, transportation and deposition: earthquakes and volcanoes. Tides and Ocean currents; Maps.

Human occupations and activities in relation to geographical factors.

The Geography of India with special reference to the above.

## (3) MATHEMATICS

## PAPER I

**Algebra**—Standard Formulae and their application; Factors, Surds, Laws of Indices. Quadratic equations in one unknown (including graphical methods), Arithmetical and Geometrical Progressions (only finite series). Permutation and combination, Binomial Theorem (Any index), partial Fractions and Logarithms.

**Mensuration**—Areas of Plane figures, Volumes and Surfaces of Cubes, Cylinders, Pyramids, Cones and Spheres

**Co-ordinate Geometry**—Distance formula. Section formula. equation of straight line, conditions of parallelism and perpendicularity. Length of perpendicular from point to a line. Angle between two lines—concurrency. Standard forms of the equation of a circle—Tangents and Normals.

## PAPER II

**Trigonometry**—Trigonometrical ratios and their graphs addition theorems; Identities; Use of four figure tables; Sim-

ple trigonometrical equations; Solutions of triangles; Heights and distances.

**Calculus**—Derivatives of standard forms; Successive derivatives. Applications of the notion of derivative to geometry, mechanics and physics, simple cases of maxima and minima of functions of a single variable.

Integration of standard forms and questions based on them, integration by substitution and by parts; integration of rational functions.

**Mechanics**—Composition and resolution of forces in one plane; Moments; Simple graphical methods; simple cases of equilibrium; Centre of gravity; Work; Velocity ratio, mechanical advantage and efficiency of a machine; Levers, pulleys, balances and other simple machines.

Rectilinear motion under uniform accelerations; graphical treatment of velocities and accelerations; composition and resolution of velocities and acceleration in a plane; conservation of linear momentum and energy; Work and power.

**NOTES**—Proofs of the parallelogram and triangle of forces and of the principle of moments will not be asked. Questions will not be set on curvilinear motion.

## INTELLIGENCE AND PERSONALITY TEST

In addition to the interview the candidates will be put to Intelligence Tests, both verbal and non-verbal, designed to assess their basic intelligence. They will also be put to Group Tests, such as group discussion, group planning, outdoor group tasks, and asked to give brief lectures on specified subjects. All these tests are intended to judge the mental calibre of a candidate. In broad terms this is really an assessment of not only his intellectual qualities but also his social traits and interest in current affairs.

## APPENDIX II

## Physical Standard for Admission as Special Entry Cadets in the Indian Navy

To be passed fit for admission to the Indian Navy, a candidate must be in good mental and bodily health and free from any defect likely to interfere with the efficient performance of duty.

## 2. The following points are to be particularly observed:—

- (a) that there is no evidence of weak constitution, imperfect development, serious malformation or obesity;
- (b) that there is no disease or impairment of function of the bones and joints and that no cervical rib is detectable on physical examination.

**NOTE**—A candidate with a rudimentary cervical rib detected only incidentally on skiagram of the chest, and in whom there are no signs or symptoms referable to the cervical rib, may be considered fit and a note to this effect will be made by the medical officer in the medical board proceedings.

- (c) that there is no malformation of the head, deformity from fracture or depression of the bones of the skull;
- (d) that there is no impediment of speech;
- (e) that there is no impaired hearing, discharge from or disease of either ear, unhealed perforation of the tympanic membranes or signs of acute or chronic suppurative otitis media or evidence of radical or modified radical mastoid operation;
- (f) that there is no disease of the bones or cartilages of the nose, nasal polypus or disease of the nasopharynx and accessory sinuses;
- (g) that there are no enlarged glands tubercular or due to other disease in the neck and other parts of the body and that the thyroid gland is normal;

**NOTE**—Scars of operations for the removal of tuberculous glands are not a cause for rejection provided that there has been no active disease within the preceding 5 years and the chest is clinically and radiologically clear;

- (h) that there is no disease of the throat, palate tonsils or gums or any disease or injury affecting the normal function of either Mandibular joint;

NOTE—Simple hypertrophy of the tonsilitis if there is no history of attacks of tonsilitis, is not cause for rejection;

- (i) that there is no sign of functional or organic disease of the heart and blood-vessels;
- (j) that there is no evidence of pulmonary tuberculosis or previous history of this disease or any other chronic disease of the lungs;
- (k) that there is no evidence of any disease of the digestive system. The liver and spleen should not be enlarged and there should be no abdominal tenderness or palpation;
- (l) that there is no inguinal hernia or tendency thereto;

NOTE—Those who have been operated for hernia may be declared fit provided :—

- (i) One year has elapsed since operation. Documentary proof to this effect is to be produced by the candidate.
- (ii) General tone of the abdominal musculature is good, and
- (iii) there has been no recurrence of hernia or complication connected with the operation.
- (m) that there is no hydrocele, varicocele or any other disease or defect of the genital organs;
- (n) that there is no disease of the kidneys. Cases showing albuminuria or glycosuria will not be accepted;
- (o) that there is no fistula and/or fissure of the anus or evidence of haemorrhoids;
- (p) that there is no skin disease unless temporary or trivial. Scars which by their extent or position cause or are likely to cause disability or marked disfigurement are a cause for rejection;
- (q) that there is no congenital, active or latent venereal disease;
- (r) that there is no history or evidence of mental disease. Candidates with history of fits, incontinence of urine or Enuresis will not be accepted;
- (s) that there is no squint or any morbid condition of eyes or of the lids that is liable to aggravation or recurrence;
- (t) that there is no active Trachoma or its complications and sequelae.

NOTE—Remedial operations are to be performed prior to entry. No guarantee is given of ultimate acceptance and it should be clearly understood by the candidate that the decision whether an operation is desirable or necessary is one to be made by his private medical adviser. The Government will accept no liability regarding the result of operation or any expense incurred.

### 3. Standards for Height, Chest and Weight

- (a) **Height.**—The minimum height for a candidate of 18 years of age is 157 cm, except where otherwise stated. The minimum height may be reduced by 5 cm. in the case of Gorkhas, Nepalese, Assamese and Garhwalese, and by 2 cm. in the case of candidates from LACCADIVES.
- (b) **Chest.**—The chest should be well proportioned and well developed with a minimum girth of 79 cm and minimum range of expansion of 5 cm for a candidate of 18 years of age.
- (c) **Weight.**—A table showing correlation between age height and average weight is given below for guid-

ance of the examining Medical Officer/Medical Board.

Age period	16—17	18—19	20—21
Height (Centimetres)	Weight (Kg.)	Weight (Kg.)	Weight (Kg.)
157	45	47	49
160	47	48	50
162	48	50	52
165	50	52	53
168	52	53	55
170	53	55	57
173	55	57	59
175	57	59	61
178	59	61	62
180	61	63	64
183	63	65	67

NOTE.—Heights and Weights as shown above are for men fully stripped. It is not possible to lay down precise height and weight ratio for candidates under 18 years of age. This is left to the discretion of the recruiting medical Officer Medical Board who may select candidates with less than specified height/weight provided they in his/their opinion would acquire the necessary height and weight standards on attaining the age of 18 years. However, the minimum height at the time of selection should not be less than 152 cm. The relaxation of 5 cm allowed for adult entry in respect of Gorkhas, Nepalese, Assamese and Garhwalese and 2 cm for LACCADIVES candidates vide paragraph 3(a) above may be further reduced proportionately for candidates under 18 years of age from these regions depending on their age on selection. This also applies to chest measurement and expansion and a maximum relaxation of 1.25 cm may be allowed in the chest measurement of candidates between 17 and 18 years of age but the minimum range of expansion should be 5 cm.

4. **Teeth.**—It should be ensured that sufficient number of sound natural teeth for sufficient mastication are present.

- (a) In order to assess the dental condition of an individual teeth in good apposition with corresponding teeth in the other jaw will be allotted points as follows :—
- (i) Central incisor, lateral incisor, canine, 1st and 2nd premolar and under-developed 3rd molar—1 point each.
- (ii) 1st and 2nd molar and fully developed third molar—2 points each

When all 32 teeth are present there will be total count of 20 or 22 points, according to whether the third molars are well developed or not.

- (b) There should be at least 14 dental points in the mouth, made up by sound or repairable teeth as follows :—

- (i) Any 4 of the 6 anterior.
- (ii) Any 6 of the 10 posterior.

The upper jaw teeth should be in good functional apposition to the corresponding teeth in the lower jaw.

(c) Candidate suffering from severe pyorrhoea will be rejected, where the state of pyorrhoea is such that in the opinion of Dental Officer it can be cured without extraction of teeth the candidate may be accepted.

An X-Ray examination of chest will be carried out. Any defects or disability discovered during this examination will disqualify a candidate from entry into the Service.

Eye Sight Standard				
Distant Without	Vision Glasses	Near Vision without glasses	Colour perception standard	Binocular Vision
6/6	6/6	Each eye D.O.5 snellen	1	Good binocular vision (fusion faculty and full field of vision in both eyes).

NOTE 1—Relaxation in respect of Engineering, Electrical and Supply Branches up to 6/18, 6/36 correctable to 6/6 will be permissible for a limited number of otherwise meritorious candidates subject to the proviso that they will continue to serve in the Branches chosen on entry.

NOTE 2—Candidates with suspected Xerophthalmia, Pigmentary degeneration/disturbance of the Chorio-Retina, abnormal Iris and pupillary conditions, who are otherwise fit in all respects, will be subjected to detailed Della Casa test for Night Vision Acuity, prior to acceptance for service in the Navy. Those who fail to secure Grade II (eleven) (Della Casa—good/very good) will be rejected. A certificate as under will be obtained from otherwise fit candidates who are not subjected to Della Casa test:—"I hereby certify that to the best of my knowledge there has not been any case of congenital right blindness in our family and I do not suffer from it."

Signature of candidate  
Countersignature of the Medical Officer."

6. *Acceptable defects at entry*—Candidates for entry into the Navy presenting a mild degree of the following defects may be accepted:—

- (a) slight degree of varicocele;
- (b) knock knees with a separation of less than 5 cm.
- (c) defective gait, not affecting walking and running;
- (d) partly flexible flat feet with only a short history of foot strain;
- (e) healed perforation of the ear drum if the hearing is normal;
- (f) III & IV degree trachoma without entropion;
- (g) mild curvature of leg, not affecting walking and running,
- (h) mild hammer toe with no history of trouble;
- (i) slight stammering but not affecting expression;
- (j) mild degree of varix;
- (k) Undescended intra-abdominal testicle of one side provided the other testicle is normal and that there is no untoward physical or psychological effect due to the undescended testicle. Undescended testis retained in the inguinal canal or at the external abdominal ring is, however, a bar to acceptance unless corrected by operation;
- (l) any other slight defect which in the opinion of the Medical Officer will not interfere with the individual's efficiency as an officer

#### APPENDIX III

#### BRIEF PARTICULARS OF NAVAL SERVICE

##### 1. PAY AND ALLOWANCES

###### (a) Pay

Rank	Pay Scale	
	General Service	Naval Aviation
(1)	(2)	(3)
Midshipman	Rs. 270	Rs. 270
Ag. Sub. Lieut.	Rs. 400	Rs. 475
Sub-Lieut.	Rs. 450—480	Rs. 535—565

(1)	(2)	(3)
Lieut.	Rs. 630—910	Rs. 710—990
Lieut., Cdr.	Rs. 1000—1300	Rs. 1050—1300
Commander	Rs. 1350—1500	Rs. 1350—1500
Captain	Rs. 1550—2150	Rs. 1550—2150
	(Commodore receives pay to which entitled according to seniority as Captain)	
Rear Admiral	Rs. 2500—125/2—2750	Rs. 2500—125/2—2750.
Vice Admiral	Rs. 3000	Rs. 3000

###### (b) Allowances

In addition to pay, an officer receives the following allowances:—

- (i) Compensatory (City) and dearness allowances are admissible at the same rates and under the same conditions as are applicable to the Civilian Gazetted Officers from time to time.
- (ii) A kit maintenance allowance of Rs. 50 p.m. in the case of officers of and below the rank of Commodore only).
- (iii) A special disturbance allowance of Rs. 454 p.m. (in the case of officers of and below the rank of Commodore only).
- (iv) When officers are serving outside India, expatriation allowance ranging from Rs. 50 to Rs. 250 p.m. pending on rank held is admissible.
- (v) A separation allowance of Rs. 70 p.m. is admissible to
  - (i) married officers serving in non-family stations; and
  - (ii) married officers serving on board I.N. Ships for the period during which they remain in ships away from the base ports.
- (vi) Free ration for the periods they remain in the ships away from the base ports.

NOTE 1—In addition certain special concessions like hardy-line money sub-marine allowance, sub-marine pay, survey bounty/survey allowance qualification pay/grant and diving pay are admissible to officers.

NOTE 2—Naval Aviation officers are entitled to flying bounty at the following rates subject to the fulfilment of certain specified conditions:—

Ag. Sub. Lieutenant to Commander—Rs. 4200 pa.  
Captain and above —Rs. 3600 pa.

##### 2. PROMOTION

###### (a) By time Scale

Midshipman to Sub. Lieut.	1 Year
Ag. Sub. Lieut. to Sub. Lieut.	1-1/2 years, depending upon the branch for which selected.
Sub. Lieut. to Lieut.	3 years as Ag. and confirmed Sub-lt. (subject to gain/forfeiture of seniority).
Lieut. to Lieut. Cdr.	8 years seniority as Lieut.
Lieut. Cdr. to Cdr. (if not promoted by selection)	24 years reckonable Commissioned service.

###### (b) By Selection

Lieut. Cdr. to Cdr.	
(i) Executive Branch	2—8 years seniority as Lieut. Cdr.
(ii) Engineering & Electrical Branches	2—10 years seniority as Lieut. Cdr.
(iii) Supply & Secretariat Branch	4—10 years seniority as Lieut.-Cdr.
Cdr. to Capt.	4 years seniority as Cdr.
Capt. to Rear Admiral and above.	No service restriction.

##### 3. POSTING

Officers are liable to serve anywhere in India and abroad.

NOTE—Further information, if desired, may be obtained from the Director of Personal Services, Naval Headquarters, New Delhi-11.

